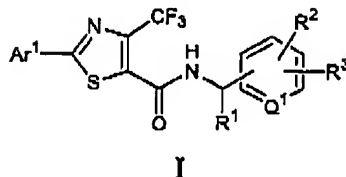


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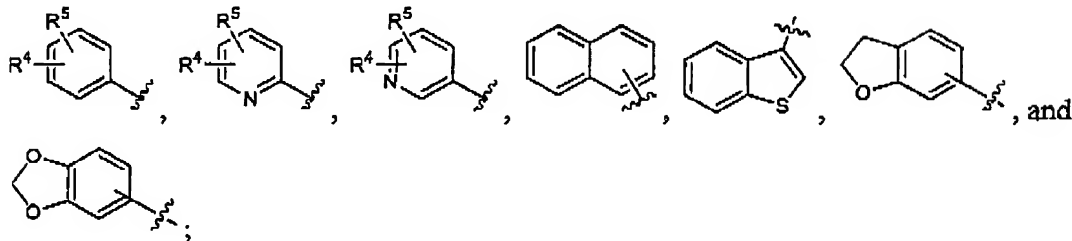
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Amendments to the claims

1. A compound of Formula I

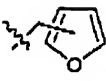
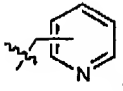


where:

Q¹ is CH or N;Ar¹ is selected from the group consisting ofR¹ is hydrogen, C₁₋₆alkyl, hydroxymethyl, or trifluoromethyl;R² is halogen, C₁₋₆alkyl, C₁₋₂perfluoroalkyl, C₁₋₆alkoxy, C₁₋₂perfluoroalkoxy, -NR⁶R⁷, -(CH₂)₁₋₄NR⁶R⁷, -O(CH₂)₂₋₃NR⁶R⁷, or pyridyl;R³ is hydrogen, halogen, or C₁₋₆alkoxy;R⁴ is halogen, C₁₋₆alkyl, C₁₋₆alkoxy, -NR⁶R⁷, -(CH₂)₁₋₄NR⁶R⁷, -O(CH₂)₂₋₃NR⁶R⁷, or ;R⁵ is hydrogen, halogen, or C₁₋₆alkoxy;

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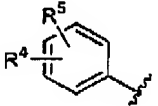
R^6 is hydrogen, C_{1-6} alkyl, $-C(=NH)NH_2$, , or ;

R^7 is hydrogen or C_{1-6} alkyl;

or R^6 and R^7 taken together are $-\text{CH}_2\text{CH}(\text{CH}_3)\text{OCH}(\text{CH}_3)\text{CH}_2-$ or $-\text{CH}_2\text{CH}_2\text{XCH}_2\text{CH}_2-$, where X is a chemical bond, CH_2 , CHOH , NH , NCH_3 , NCOCH_3 , O, or S;

or a pharmaceutically acceptable salt or solvate thereof.

2. (cancelled)

3. A compound of claim 1 where Ar^1 is .

4. A compound of claim 3 selected from the group consisting of

2-(4-fluorophenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-methoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-methoxyphenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(2-fluorophenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-(2-fluorophenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(2-methoxyphenyl)-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3-methoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-[3-(dimethylamino)phenyl]ethyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-[3-(dimethylamino)phenyl]ethyl]-2-(2-fluorophenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(3-fluorophenyl)methyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(4-methoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3,4-dimethoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2,4-dimethoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2,4-dimethoxyphenyl)-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-methoxyphenyl)-N-[1-[3-(1-piperidiny)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-(2-methoxyphenyl)-N-[1-[3-(1-pyrrolidinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-[3-[(2-furanylmethyl)methylamino]phenyl]ethyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-fluorophenyl)-N-[1-[3-[(2-furanylmethyl)methylamino]phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3,4-dimethoxyphenyl)-N-[1-[3-(1-pyrrolidinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-fluorophenyl)-N-[1-[3-(4-morpholinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-(3-aminophenyl)ethyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-[3-[(aminoiminomethyl)amino]phenyl]ethyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-[3-(dimethylamino)phenyl]ethyl]-2-(5-fluoro-2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

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2-(5-fluoro-2-methoxyphenyl)-N-[(3-fluorophenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-N-[(3-methoxyphenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-N-[(1S)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(5-fluoro-2-methoxyphenyl)-N-[(1S)-1-(3-methoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-chlorophenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-chlorophenyl)-N-[1-[3-(dimethylamino)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-chlorophenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(2-chlorophenyl)-N-[(1S)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-chlorophenyl)-N-[1-[3-(4-morpholinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-[2-[2-(diethylamino)ethoxy]phenyl]-N-[(3-fluorophenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(1*S*)-1-(3-methoxyphenyl)ethyl]-2-[2-(4-morpholinyl)phenyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-(4-morpholinyl)phenyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-[2-(4-morpholinyl)phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[4-(4-morpholinyl)phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[(1*S*)-1-(3-methoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(dimethylamino)methyl]phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(dimethylamino)methyl]phenyl]-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(dimethylamino)methyl]phenyl]-N-[(1*S*)-1-(3-methoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-[2-[(diethylamino)methyl]phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[(3-fluorophenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[(1*S*)-1-(3-methoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(4-fluorophenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

~~2-(2-methoxyphenyl)-N-(3-pyridinylmethyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;~~

N-[(3-fluorophenyl)methyl]-2-(3-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-(2,3-dihydro-5-benzofuranyl)ethyl]-2-(3-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

~~2-(3-methoxyphenyl)-N-(3-pyridinylmethyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;~~

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2-(3,4-dimethoxyphenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(3,4-dimethoxyphenyl)-N-[1-(3,4-dimethoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3,4-dimethoxyphenyl)-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3-fluorophenyl)-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(2,4-dimethoxyphenyl)-N-[(3-fluorophenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3-fluorophenyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-(3-bromophenyl)ethyl]-2-(2-methoxyphenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-(4-morpholinyl)phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-(4-morpholinyl)phenyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

N-[(1S)-1-(3-methoxyphenyl)ethyl]-2-[3-(4-morpholinyl)phenyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[2-(diethylamino)ethoxy]phenyl]-N-[(1S)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-[2-[2-(diethylamino)ethoxy]phenyl]-N-[(1S)-1-(3-methoxyphenyl)ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[1-(3-aminophenyl)ethyl]-2-(2-fluorophenyl)-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[2-(diethylamino)ethoxy]-5-fluorophenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(dimethylamino)methyl]phenyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[1-[3-(4-morpholinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[(diethylamino)methyl]phenyl]-N-[1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-(4-morpholinylmethyl)phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-(4-morpholinylmethyl)phenyl]-N-[[3-(trifluoromethoxy)phenyl]methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-(4-morpholinylmethyl)phenyl]-N-[(1S)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3-fluorophenyl)-N-[(3-fluorophenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(1S)-1-(3-methoxyphenyl)ethyl]-2-[2-(4-morpholinylmethyl)phenyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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N-[(1*S*)-1-(3-methoxyphenyl)ethyl]-2-[2-[(4-methyl-1-piperazinyl)methyl]phenyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[(3-methoxyphenyl)methyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

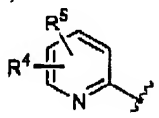
2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[1-[3-(4-morpholinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[2-[[ethyl(4-pyridinylmethyl)amino]methyl]phenyl]-N-[1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(2-methylbenzoyl)-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide; and

N-[1-[4-fluoro-3-(4-morpholinyl)phenyl]ethyl]-2-(2-methylbenzoyl)-4-(trifluoromethyl)-5-thiazolecarboxamide.



5. A compound of claim 1 where Ar¹ is

6. A compound of claim 5 selected from the group consisting of

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2-[3-[(diethylamino)methyl]-2-pyridinyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(4-pyridinylmethyl)amino]methyl]-2-pyridinyl]-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(4-pyridinylmethyl)amino]methyl]-2-pyridinyl]-N-[1-[3-(4-morpholinylmethyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(1*S*)-1-[3-[(2*R*,6*S*)-2,6-dimethyl-4-morpholinyl]phenyl]ethyl]-2-[3-(4-morpholinylmethyl)-2-pyridinyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(1*S*)-1-[3-[(2*R*,6*S*)-2,6-dimethyl-4-morpholinyl]phenyl]ethyl]-2-[3-[[ethyl(1-methylethyl)amino]methyl]-2-pyridinyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

N-[(1*S*)-1-[3-[(2*R*,6*S*)-2,6-dimethyl-4-morpholinyl]phenyl]ethyl]-2-[3-[[ethyl(4-pyridinylmethyl)amino]methyl]-2-pyridinyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-(4-morpholinylmethyl)-2-pyridinyl]-N-[(1*S*)-1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(1-methylethyl)amino]methyl]-2-pyridinyl]-N-[(1*S*)-1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(4-pyridinylmethyl)amino]methyl]-2-pyridinyl]-N-[(1*S*)-1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(1-methylethyl)amino]methyl]-2-pyridinyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

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2-[3-[(diethylamino)methyl]-2-pyridinyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-[3-[[ethyl(1-methylethyl)amino]methyl]-2-pyridinyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide;

2-(3-methyl-2-pyridinyl)-N-[(1*S*)-1-[3-(3-pyridinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-(3-methyl-2-pyridinyl)-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-(1,3-dioxolan-2-yl)-2-pyridinyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

2-[3-[[ethyl(1-methylethyl)amino]methyl]-2-pyridinyl]-N-[(1*S*)-1-[3-(4-morpholinyl)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide;

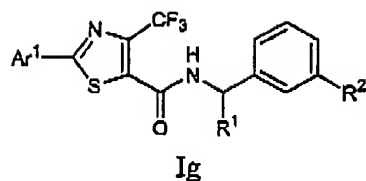
2-[3-[[ethyl(4-pyridinylmethyl)amino]methyl]-2-pyridinyl]-N-[1-[3-(trifluoromethoxy)phenyl]ethyl]-4-(trifluoromethyl)-5-thiazolecarboxamide; and

2-[3-(4-morpholinylmethyl)-2-pyridinyl]-4-(trifluoromethyl)-N-[1-[3-(trifluoromethyl)phenyl]ethyl]-5-thiazolecarboxamide.

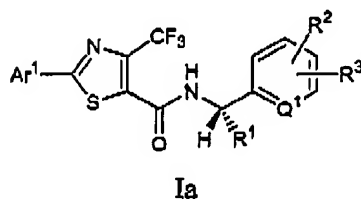
7. A compound of claim 1 where R¹ is methyl.
8. A compound of claim 1 where R¹ is hydrogen.
9. A compound of claim 1 where the structure is that of Formula Ig.

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10. A compound of claim 1 where R¹ is C₁₋₆alkyl and the stereochemical configuration is that of Formula Ia.



11. A pharmaceutical composition comprising a compound of claim 1 and a pharmaceutically acceptable carrier.
12. (withdrawn) A method for treating disorders responsive to opening KCNQ potassium channels comprising administering to a patient a therapeutically effective amount of a compound of claim 1.
13. (withdrawn) The method of claim 12 where the disorders are acute and chronic pain, migraine, neuropathic pain, bipolar disorders, convulsions, mania, epilepsy, anxiety, depression and neurodegenerative disorders.
14. (withdrawn) The method of claim 12 where the disorder is migraine.
15. (withdrawn) The method of claim 12 where the disorder is neuropathic pain.
16. (withdrawn) The method of claim 12 where the disorder is bipolar disorder.
17. (withdrawn) The method of claim 12 where the disorder is anxiety.